Remedial Action Contract

U.S. EPA Contract No.: EP-W-09-002

Remedial Action - Phase 1 (Wells Installation)

Work Assignment No: 023-RARA-02PE

Old Roosevelt Field Contaminated

Groundwater Area Site

EPA Remedial Project Manager: Caroline Kwan

CDM Site Manager: Thomas Mathew, P.E.

Prepared for: U.S. Environmental Protection Agency Region 2 290 Broadway New York, New York 10007-1866

Prepared by: CDM Federal Programs Corporation 125 Maiden Lane, 5th Floor New York, New York

Bi-Weekly Progress Report No. 1 Phase 1 – Wells Installation

1.0 Introduction

Pursuant of the Work Assignment Form (WAF) Statement of Work (SOW), for Region 2 Contract EP-W-09-002 Work Assignment 023-RARA-02PE, CDM Federal Programs Corporation (CDM) is performing the Phase 1 (Wells Installation) Remedial Action (RA) at the Old Roosevelt Contaminated Groundwater Area Site. The Bi-Weekly Progress Report is intended to partially fulfill the requirements specified under WAF SOW for this assignment. This Bi-Weekly report is prepared for the work performed from May 3 to 14, 2010.

The primary responsibility of the project geologist was to oversee all drilling and well installation activities to ensure that the work meets all requirements of the final Remedial Design specifications and is performed by the Subcontractor in accordance with all applicable quality assurance, health and safety, and regulatory requirements.

The work completed during this reporting period included mobilizing the drilling equipments, temporary treatment system and trailer to the site, installing temporary chain link fence, locating utilities, installing a decontamination pad, and installing test borehole TB-01 (the same location as extraction well EW-1D). This work is summarized in further detail below. A list of the supporting documentation attached with this bi-weekly progress report is as follows:

- Attachment 1 CDM's Daily Status Report
- Attachment 2 CDM's Field Log Book notes
- Attachment 3 Borehole log
- Attachment 4 Chain-of-Custody forms
- Attachment 5 Photo log

2.0 Personnel On-Site

The following personnel were on site during this reporting period:

CDM - Contractor

Thomas Mathew Site Manager
Ali Rahmani Project Engineer
Frank Robinson Project Geologist

Uni-Tech - Driller

Butch Hitzelberger Head Driller

Brad Barnes Driller Joe Gagnon Driller

Intex - Temporary Water Treatment System

Todd Daniel Keith Fitzgerald

Utility Survey

Rich Gaymon Technician

3.0 Summary of Work Performed

The following is a brief summary of the field activities performed during this reporting period (refer to Attachment 1 for Daily Status Report for individual working day):

■ Site mobilization:

- Uni-Tech mobilized to the site, installed decontamination pad at staging area and dropped off equipment and supplies.
- ➤ Uni-Tech received a shipment of 4 inch stainless steel screen and riser pipes.
- ➤ Uni-Tech received a flat rate water use permit from the Garden City water department.
- Fencing contractor, National Rent-a-Fence installed temporary fencing by the temporary treatment area, the extraction well locations, and the staging area.
- ➤ ModSpace delivered and installed the CDM site trailer at the staging area.
- Adler delivered a Frac tank to the temporary water treatment area and the staging area
- Freehold Cartage delivered a roll off container to the extraction well location and the staging area location.
- Mr. John delivered a Port-a-John to the staging area.
- ➤ Eagle Sanitation delivered the dumpster to the staging area.
- ➤ The site sign was installed on the staging area fence.

■ Installation of test borehole TB-01

- ➤ Uni-Tech decontaminated the drill rig and all associated equipment, finished setting up on the test boring, TB-01, the same location as EW-1D.
- ➤ Uni-Tech drilled down to 415 feet and completed TB-01 using mud rotary method. Split spoon samples were generally collected at a frequency of 1 every 10 feet from grade to 200 feet below ground surface (bgs), and 1 every 5 feet from 205 to 415 feet bgs. Details can be found in the bore logs (refer to Attachment 3) and the lithologic samples.
- A 16-inch diameter surface casing was installed from grade to 80 feet bgs by welding each 20 foot section together. The casing was then tremie grouted in place with a cement bentonite grout to grade. The 16-inch diameter surface casing was cut to 1 foot above grade.
- ➤ A total of 27 split spoon samples from TB-01 were selected and sent to Johnson Screens (Uni-Tech subcontract laboratory) for grain size analysis. Grain size analysis results will be used to determine the well screen slot size and filter pack materials for the three extractions wells.
- ➤ TB-01 was temporarily abandoned with #1 and #2 gravel to the bottom of the surface casing, 80 feet below grade. EW-1D will be installed later at this location.
- ➤ Uni-Tech moved the drill rig to the staging area. The drill rig and all associated equipment used at TB-01 were decontaminated.

■ Health and Safety

- ➤ A tailgate H&S meeting was conducted before the start of work activities during each working day.
- ➤ While moving the trailer with supplies on it, the Uni-Tech driller (B. Hilzelberger) damaged a car in the parking lot by the extraction well location. The Garden City Police Department responded and wrote up an accident report. The accident was also

reported to CDM and the Uni-Tech office. An incident report was also filed by CDM as a result of this.

4.0 Problems/Corrective Action

- 1. During installation of 16-inch casing at TB-01/EW-1D, gravel/cobble had fallen to the bottom of 16-inch borehole (approximately 86 to 90 feet bgs). Uni-tech attempted to drill through the gravel/cobble; however, was not successful because gravel/cobble was too big for the mud to circulate it to the surface. In order to remove the gravel, Uni-Tech thinned out the drilling mud and then lowered a 4 inch steel pipe down the borehole with a 1 inch poly hose inside of the 4-inch steel pipe. Compressed air was injected down the poly hose, resulting in a venturi effect pushing the gravel up to the surface. This method successfully removed the gravel down to 102 feet where split spoon sampling commenced.
- Temporary fence at the staging area, extraction well area and the temporary water treatment system area were damaged over the weekend of May 3rd due to high winds. National Rent-a-Fence repaired all fence on May 10th.

5.0 Deviations

None noted for this period.

6.0 Conclusions

All RA construction work was completed in general accordance with RA Subcontract Documents and approved construction submittals. Minor issues were encountered during this reporting period, all of which were addressed and resolved.

ATTACHMENT 1 DAILY STATUS REPORT



PROJECT: Old Roosevelt Field Site

			WEATHER: TEMP:	Rain to overcast
			WIND:	
		FIELD FORCE		
PERSONN CDM:	EL ONSITE Frank Robinson, Thomas Mathew, Muzaff	ar Rahmani		
Uni-Tech:	Butch Hitzelberger, Brad Barnes, Joe Gag			
Unii-Tech.	— Dulch Hilzeiberger, brau barries, soe Gay	HOH		
		VISITORS		
TIME	NAME	REPRESENTING	REMARKS	3
EQUIPMEN	T IN USE:			
COMMENT	AND			
	CTION ACTIVITIES COMPLETED AND/OR			
-Drillers sta	rted to mobilize. Installed decon pad at stag ntractor, National Rent-a-Fence installed te	ing area and dropped off equations are and dropped off equations by the temporary fencing by the	uipment and suppli	es.
locations.			orary troutmont an	sa and the extraodern west
	delivered and installed the CDM site trailer ered a Frac tank to the temporary treatment			
-Freehold C	artage delivered a roll off container to the e			
-Mr.John de	elivered a Port-a-John to the staging area.			
WORK DE	NO INCRECTED.			
WUKN BEI	NG INSPECTED:			

Date: <u>5-03-10</u>
Day: 01 (Monday)

PROJECT: Old Roosevelt Field Site

JOB SAFETY. INDICATE WHAT WAS CHECKED, RESULTS, AND CORRECTIVE ACTIONS TAKEN:
TESTING PERFORMED:
PROBLEM/DELAYS/CORRECTIVE ACTION TO BE TAKEN:
GREEN REMEDIATION PRACTICES IMPLEMENTED AND QUANTITIES TRACKED:
COMMUNICATION WITH CONTRACTOR STAFF:
MEETING:
ADDITIONAL ACTIVITIES AND REMARKS:
Por Frank Dakingan
By: <u>Frank Robinson</u>
Title: Project Geologist

PROJECT: Old Roosevelt Field Site

WORK BEING INSPECTED:

Date: _	5-04-10	
Date	0 0	

Day: 02 (Tuesday)

WEATHER: Partly cloudy

TEMP: _60/82_

WIND: _Moderate from the NW_

	FIELD FORCE					
DEDSONNE	EL ONSITE					
PERSONNE CDM:	Frank Robinson					
Uni-Tech:	Butch Hitzelberger, Brad Barnes, Joe Gagnon					
Utility Survey	ey: Rich Gaymon					
	VISITORS					
TIME	NAME REPRESENTING	REMARKS				
EQUIPMENT -Failing 1500						
-Tender truck	ck.					
	-Support truck.					
-Deere 310E	E backnoe.					
CONSTRUC	CTION ACTIVITIES COMPLETED AND/OR IN PROGRESS:					
-A tailgate H&S meeting was conducted before the start of work activities. See below for detailsUni-Tech: decontaminated the drill rig and all associated equipment, finished setting up on the test boring, TB-01, the same location as EW-1D and drilled down to 30 feet, collecting split spoon samples every 10 feetFencing contractor, National Rent-a-Fence installed fencing around the staging area and completed installing the screening around the extraction well fencingFreehold Cartage delivered a roll off container to the staging area location.						
-The site sign -Rich Gaymo location at M -While movin	-Freehold Cartage delivered a roll off container to the staging area locationThe site sign was installed on the staging area fenceRich Gaymon (Utility Survey) cleared all of the well locations using magnetics and ground penetrating radar. Only one well location at MW-2 had to be moved 6 feet due to electrical lines at the original locationWhile moving the trailer with supplies on it, the Uni-Tech driller (B. Hilzelberger) damaged a car in the parking lot by the extraction					
Uni-Tech office	n. The Garden City PD responded and wrote up an accident report. T fice	The accident was also reported to CDIVI and the				

PROJECT: Old Roosevelt Field Site

JOB SAFETY. INDICATE WHAT WAS CHECKED, RESULTS, AND CORRECTIVE ACTIONS TAKEN:
-Daily tailgate H&S meeting topics covered: Slips trips and falls: proper PPE (hardhat, safety glasses, steel toe shoes and safety vest):watch out for traffic in the parking lot
when walking or moving vehicles and have a fire watch when performing hot work.
-The Uni-Tech driller damaged a car in the parking lot (see above).
TESTING PERFORMED:
DDODI EMIDEI AVEICODDECTIVE ACTION TO DE TAVEN.
PROBLEM/DELAYS/CORRECTIVE ACTION TO BE TAKEN:
GREEN REMEDIATION PRACTICES IMPLEMENTED AND QUANTITIES TRACKED:
·- ·- ·- ·- ·- ·- ·- ·- ·- ·- ·- ·- ·- ·
COMMUNICATION WITH CONTRACTOR STAFF:
MEETING:
MEETING:
ADDITIONAL ACTIVITIES AND REMARKS:
Dur. Frenk Dehinsen
By: Frank Robinson
Title: Project Geologist

CDM

PROJECT: Old Roosevelt Field Site

				WEATHER:_ TEMP:	
					Moderate from the South
			FIELD FORCE		
PERSONN	IEL ONSITE				
CDM:	Frank Robinson				
Uni-Tech:	Butch Hitzelberger, Br	ad Barnes, Joe Ga	agnon		
			VISITORS		
TIME	NAME		REPRESENTING	REMARKS	
	_				
FOUIPMEN	NT IN USE:				
-Failing 150	00 Drill rig.				
-Tender tru -Support tr					
	иск.)E backhoe.				
CONSTRU	CTION ACTIVITIES CO	MPLETED AND/C	OR IN PROGRESS:		
-Uni-Tech of to 20 inche the end of the -Uni-Tech of -National R -542 ft of -708 ft of	drilled from 40-80 feet us in diameter to install the day of 2 hours. received a flat rate water	sing mud rotary, cone surface casing properties of the surface casing properties to finish installing	art of work activities. See be ollecting split spoon samples oipe. At 64 feet, a valve on the Garden City water depart the wind screen on the stage.	s every 10 feet. The book the drill rig failed and water	was replaced with a delay at
- 24 ft ga					
WORK BE	ING INSPECTED:				_

Date: __5-05-10

Day: 03 (Wednesday)

PROJECT: Old Roosevelt Field Site

JOB SAFETY. INDICATE WHAT WAS CHECKED, RESULTS, AND CORRECTIVE ACTIONS TAKEN:
-Daily tailgate H&S meeting topics covered: Slips trips and falls: proper PPE (hardhat, safety glasses, steel toe shoes and safety vest): watch out for traffic in the parking lot
when walking or moving vehicles and have a fire watch when performing hot work.
TECTING DEDECOMED.
TESTING PERFORMED:
DRODI EMIDEL AVE/CORRECTIVE ACTION TO BE TAVEN.
PROBLEM/DELAYS/CORRECTIVE ACTION TO BE TAKEN: -Replacing failed valve on drill rig, delay of approximately 2 hours.
The state of the s
GREEN REMEDIATION PRACTICES IMPLEMENTED AND QUANTITIES TRACKED:
COMMUNICATION WITH CONTRACTOR STAFF:
MEETING:
ADDITIONAL ACTIVITIES AND REMARKS:
By: Frank Robinson
Title: Project Geologist

CDM

PROJECT: Old Roosevelt Field Site

Date: _	5-06-10	
D a.c. –	-0 00 .0	

Day: 04 (Thursday)

WEATHER: Partly cloudy

TEMP: _60/82_

WIND: Light from the west

	FIELD FORCE					
PERSONI	NEL ONSITE					
CDM:	Frank Robinson					
Uni-Tech:	Butch Hitzelberger, Brad Ba	arnes, Joe Gagnon				
		VISITORS				
TIME	NAME	REPRESENTING	REMARKS			
	NT IN USE:					
-Failing 150	00 Drill rig.					
-Tender tru -Support tr						
	DE backhoe.					
CONSTRU	CTION ACTIVITIES COMPL	ETED AND/OR IN PROGRESS:				

- -A tailgate H&S meeting was conducted before the start of work activities. See below for details.
- -Uni-Tech drilled TB-01 (test boring #01) from 64-82 feet with a 20 inch drill bit using mud rotary. The 16 inch surface casing was then installed from grade to 80 feet welding each 20 foot section together. The casing was then tremie grouted in place with a cement bentonite grout to grade.

WORK BEING INSPECTED:

- -The drill rig and all associated equipment were inspected when they arrived on site on Monday 5/3/10 and all appeared to be in good working order.
- -All material being used by Uni-Tech to date was inspected and meets the submittals approved by CDM. This includes the drilling additive, bentonite grout and cement.

JOB SAFETY. INDICATE WHAT WAS CHECKED, RESULTS, AND CORRECTIVE ACTIONS TAKEN:

-Daily tailgate H&S meeting topics covered:

Slips trips and falls: proper PPE (hardhat, safety glasses, steel toe shoes and safety vest): watch out for traffic in the parking lot when walking or moving vehicles and have a fire watch when performing hot work.

PROJECT: Old Roosevelt Field Site

TESTING PERFORMED: PROBLEM/DELAYS/CORRECTIVE ACTION TO BE TAKEN:
PROBLEM/DELAYS/CORRECTIVE ACTION TO BE TAKEN:
GREEN REMEDIATION PRACTICES IMPLEMENTED AND QUANTITIES TRACKED:
COMMUNICATION WITH CONTRACTOR STAFF:
MEETING:
ADDITIONAL ACTIVITIES AND REMARKS:
By: Frank Robinson
Title: Project Geologist

PROJECT: Old Roosevelt Field Site

Date: _	5-07-10	
D a.o	0 00	

Day: 05 (Friday)

WEATHER: Clear TEMP: 55/70

WIND: Light from the SW

		FIELD FORCE				
DEDSONA	IEL ONSITE					
CDM:	Frank Robinson					
Uni-Tech:	Butch Hitzelberger, Brad	Barnes, Joe Gagnon				
		VISITORS				
TIME	NAME	REPRESENTING	REMARKS			
FOLUDME	NT IN USE:					
-Failing 15	00 Drill rig.					
-Tender tru -Support tr						
	E backhoe.					
CONSTRU	CTION ACTIVITIES COM	PLETED AND/OR IN PROGRESS:				
-A tailgate H&S meeting was conducted before the start of work activities. See below for detailsUni-Tech cut the 16 inch surface casing for TB-01 to 1 foot above grade, the large mud pit was cleaned out and the small mud pit was installed.86 feet of drill rod was lowered into the borehole to continue drilling and split spoon sampling. The site was then secured for the weekend.						
WORK BEING INSPECTED:						
	JOB SAFETY. INDICATE WHAT WAS CHECKED, RESULTS, AND CORRECTIVE ACTIONS TAKEN: -Daily tailgate H&S meeting topics covered:					
Slips trips a		that, safety glasses, steel toe shoes and	d safety vest): watch out for tr	affic in the parking lot		

CDM

PROJECT: Old Roosevelt Field Site

TESTING PERFORMED:
IESTING FERFORMED:
PROBLEM/DELAYS/CORRECTIVE ACTION TO BE TAKEN:
- NODELING DE NOTION TO BE INNER.
GREEN REMEDIATION PRACTICES IMPLEMENTED AND QUANTITIES TRACKED:
COMMUNICATION WITH CONTRACTOR STAFF:
MEETING:
ADDITIONAL ACTIVITIES AND REMARKS:
By: Frank Robinson

PROJECT: Old Roosevelt Field Site

5-10-10	
	5-10-10

Day: 06 (Monday)

WEATHER: Clear TEMP: 42/60

WIND: Light from the NW

FIELD FORCE					
PERSONN	IEL ONSITE				
CDM:	Frank Robinson				
Uni-Tech:	Butch Hitzelberger, Brad Barnes	s, Joe Gagnon			
Intex:	Todd Daniel, Keith Fitzgerald				
		VISITORS			
TIME	NAME	REPRESENTING	REMARKS		
EQUIPMEN					
-Failing 150					
	-Tender truckSupport truck.				
	E backhoe.				
CONSTRU	CTION ACTIVITIES COMPLETE	D AND/OR IN PROGRESS:			

- -A tailgate H&S meeting was conducted before the start of work activities. See below for details.
- -Due to the high winds over the weekend, the fencing at the staging area, extraction well area and the temporary water treatment area were damaged. National Rent-a-Fence was called and they arrived mid-morning to repair the fencing.
- -Intex mobilized the temporary water treatment system trailer and started to plumb the treatment system.
- -Adler delivered the second Frac tank which was staged in the staging area and will be used to store water/mud used during drilling.
- -Uni-Tech drilled from 86-90 feet and encountered much grave/cobble that had fallen to the bottom of the borehole during installation of the 16 inch casing. The gravel/cobble was too big for the mud to circulate it to the surface so a junk basket was used to try and clear the borehole of the gravel/cobble. The junk basket was used several times but the gravel/cobble was still blocking the bottom of the borehole. A decision was made to use 4 inch pipe to inject compressed air down the borehole so the gravel/cobble will be removed up through the surface casing.

WORK BEING INSPECTED:

JOB SAFETY. INDICATE WHAT WAS CHECKED, RESULTS, AND CORRECTIVE ACTIONS TAKEN:

Daily tailgate H&S meeting topics covered:

Slips trips and falls: proper PPE (hardhat, safety glasses, steel toe shoes and safety vest): watch out for traffic in the parking lot when walking or moving vehicles and have a fire watch when performing hot work.

PROJECT: Old Roosevelt Field Site

TESTING PERFORMED:
PROBLEM/DELAYS/CORRECTIVE ACTION TO BE TAKEN:
Approximately 4 hours were lost due to the fence's being damaged over the weekend due to high winds. Uni-Tech had to repair
some of the fencing at the extraction well and staging areas to gain access and start their work before National Fence was on-site
to repair their fences.
GREEN REMEDIATION PRACTICES IMPLEMENTED AND QUANTITIES TRACKED:
COMMUNICATION WITH CONTRACTOR STAFF:
MEETING:
ADDITIONAL ACTIVITIES AND DEMARKS.
ADDITIONAL ACTIVITIES AND REMARKS:
By: Frank Robinson
Title: Project Geologist

PROJECT: Old Roosevelt Field Site

Date:	5-11-10	
Duto.		

Day: 07 (Tuesday)

WEATHER: Overcast
TEMP: 44/54

WIND: Light from the SW

FIELD FORCE				
PERSONI	NEL ONSITE			
CDM:	Frank Robinson			
Uni-Tech:	Butch Hitzelberger, Brad	Barnes, Joe Gagnon		
				
		VISITORS		
TIME	NAME	REPRESENTING	REMARKS	
_ 				
	NT IN USE:			
-Failing 150 -Tender tru	500 Drill rig.			
-Support tr				
	0E backhoe.			
COMPTE	COTION ACTIVITIES SOM			
CONSTRU	CHON ACTIVITIES COM	PLETED AND/OR IN PROGRESS:		
-A tailgate	H&S meeting was conduct	ed before the start of work activities. See below	w for details.	

- -Adler delivered the third Frac tank, which was staged in the temporary water treatment area.
 -At TB-01, Uni-Tech thinned out the drilling mud, then lowered a 4 inch steel pipe down the borehole with a 1 inch poly hose inside of the 4-inch steel pipe to remove the gravel from bottom of the borehole. Compressed air was injected down the poly hose, resulting in a venturi effect, which push the gravel up to the surface. This method removed the gravel down to 102 feet where split spoon sampling started.
- -At TB-01, split spoon samples were collected every 10 feet from 102 feet to 200 feet.

WORK BEING INSPECTED:

JOB SAFETY. INDICATE WHAT WAS CHECKED, RESULTS, AND CORRECTIVE ACTIONS TAKEN:

-Daily tailgate H&S meeting topics covered:

Slips trips and falls: proper PPE (hardhat, safety glasses, steel toe shoes and safety vest): watch out for traffic in the parking lot when walking or moving vehicles and have a fire watch when performing hot work. Also, no smoking, drinking or eating in the exclusion zone is allowed.

PROJECT: Old Roosevelt Field Site

TESTING PERFORMED:
I ESTING FERFORMED:
PROBLEM/DELAYS/CORRECTIVE ACTION TO BE TAKEN:
GREEN REMEDIATION PRACTICES IMPLEMENTED AND QUANTITIES TRACKED:
COMMUNICATION WITH CONTRACTOR STAFF:
MEETING:
ADDITIONAL ACTIVITIES AND REMARKS:
By: Frank Robinson
By: Frank Robinson Title: Project Geologist

PROJECT: Old Roosevelt Field Site

Date: _	5-12-10	
Duto		

Day: 08 (Wednesday)

WEATHER: Light rain/drizzle

TEMP: 44/47_

WIND: Light from the SE

PERSONN	IEL ONSITE						
CDM:	Frank Robinson						
Uni-Tech:	Butch Hitzelberger, Bra	ad Barnes, Joe Gagnon					
		,	VISITORS				
TIME	NAME	REF	PRESENTING		REMARKS		
EQUIPMEN							
	-Failing 1500 Drill rig.						
	-Tender truck.						
	-Support truckDeere 310E backhoe.						
CONSTRU	CTION ACTIVITIES CO	MPLETED AND/OR IN F	ROGRESS:				

- -A tailgate H&S meeting was conducted before the start of work activities. See below for details.
- -At TB-01, split spoon samples were collected every 5 feet from 205 feet to 345 feet. A clay/silt layer was found from 223-233 feet and several smaller silt layers were also found. Details can be found in the borehole logs and the lithologic samples.
- -Uni-Tech received a shipment of 4 inch stainless steel screen and riser pipe that will be used for the construction of the monitoring wells. The material will be inspected when the boxes are opened.

WORK BEING INSPECTED:

JOB SAFETY. INDICATE WHAT WAS CHECKED, RESULTS, AND CORRECTIVE ACTIONS TAKEN:

-Daily tailgate H&S meeting topics covered:

Slips trips and falls: proper PPE (hardhat, safety glasses, steel toe shoes and safety vest): watch out for traffic in the parking lot when walking or moving vehicles and have a fire watch when performing hot work. Also, no smoking, drinking or eating in the exclusion zone is allowed.

PROJECT: Old Roosevelt Field Site

TESTING PERFORMED:
IESTING FERFORMED:
PROBLEM/DELAYS/CORRECTIVE ACTION TO BE TAKEN:
- NODELING DE NOTION TO BE INNER.
GREEN REMEDIATION PRACTICES IMPLEMENTED AND QUANTITIES TRACKED:
COMMUNICATION WITH CONTRACTOR STAFF:
MEETING:
ADDITIONAL ACTIVITIES AND REMARKS:
By: Frank Robinson

PROJECT: Old Roosevelt Field Site

Date: <u>5-13-10</u>		5-13-10	
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Day: 09 (Thursday)

WEATHER: Clear TEMP: 43/66

WIND: Light from the SE

PERSONNEL ONSITE

CDM: Frank Robinson

Uni-Tech: Butch Hitzelberger, Brad Barnes, Joe Gagnon

Intex: Todd Daniel

VISITORS

TIME NAME REPRESENTING REMARKS

EQUIPMENT IN USE:

- -Failing 1500 Drill rig.
- -Tender truck.
- -Support truck.
- -Deere 310E backhoe.

CONSTRUCTION ACTIVITIES COMPLETED AND/OR IN PROGRESS:

- -A tailgate H&S meeting was conducted before the start of work activities. See below for details.
- -At TB-01, split spoon samples were collected every 5 feet from 350 feet to 415 feet. This completes TB-01. Details can be found in the bore logs and the lithologic samples.
- TB-01 was temporarily abandoned with #1 and #2 gravel to the bottom of the surface casing, 80 feet below grade.EW-1D will be installed later at this location.
- -Uni-Tech moved the drill rig off of TB-01 to the staging area where the drill rig and all associated equipment used at TB-01 were decontaminated at the decon pad.
- -Intex was on site to receive a 20 foot storage container and to continue to set up the temporary water treatment system.

WORK BEING INSPECTED:

JOB SAFETY. INDICATE WHAT WAS CHECKED, RESULTS, AND CORRECTIVE ACTIONS TAKEN:

-Daily tailgate H&S meeting topics covered:

Slips trips and falls: proper PPE (hardhat, safety glasses, steel toe shoes and safety vest): watch out for traffic in the parking lot when walking or moving vehicles and have a fire watch when performing hot work. Also, no smoking, drinking or eating in the exclusion zone is allowed.

PROJECT: Old Roosevelt Field Site

TESTING PERFORMED:
PROBLEM/DELAYS/CORRECTIVE ACTION TO BE TAKEN:
PROBLEM/DELATS/CORRECTIVE ACTION TO BE TAKEN.
GREEN REMEDIATION PRACTICES IMPLEMENTED AND QUANTITIES TRACKED:
ORELIN REMEDIATION I RACTICES IMI ELIMENTES AND ACANTITIES TRACKES.
COMMUNICATION WITH CONTRACTOR STAFF:
MEETING:
ADDITIONAL ACTIVITIES AND REMARKS:
-Dan O'Rourke (CDM) requested that 3 additional split spoon samples be sent to the laboratory for grain size analysis: 50 feet,
one sample from 130-150 feet and a clay sample from 223-233 feet.
By: Frank Robinson
Title: Project Geologist

PROJECT: Old Roosevelt Field Site

Date: _	5-14-10	
Duto		

Day: 10 (Friday)

WEATHER: Overcast/Rain shower

TEMP: 58/70_

WIND: Light from the SE

PERSONNEL ONSITE					
CDM:	Frank Robinson				
Uni-Tech:	Butch Hitzelberger, I	Brad Barnes, Joe Gagnon			
VISITORS					
TIME	NAME	REPRESENTING	REMARKS		
EQUIPMENT IN USE: -Failing 1500 Drill rig.					
Tander trief.					

- -Tender truck.
- -Support truck.
- -Deere 310E backhoe.

CONSTRUCTION ACTIVITIES COMPLETED AND/OR IN PROGRESS:

- -A tailgate H&S meeting was conducted before the start of work activities. See below for details.
- -At MW-3S in the staging area the asphalt where the well is to go was removed and the drill rig was set up to start drilling on Monday morning.
- -27 split spoon samples from TB-01 were selected and will be submitted to Uni-Techs laboratory for grain size analysis. The grain size analysis will be used to determine the well screen slot size and filter pack material for the 3 extraction wells.

WORK BEING INSPECTED:

-The monitoring well construction material was inspected and meets what was submitted and approved by CDM. This includes the well screen, riser pipe and sumps.

JOB SAFETY. INDICATE WHAT WAS CHECKED, RESULTS, AND CORRECTIVE ACTIONS TAKEN:

-Daily tailgate H&S meeting topics covered:

Slips trips and falls: proper PPE (hardhat, safety glasses, steel toe shoes and safety vest): watch out for traffic in the parking lot when walking or moving vehicles and have a fire watch when performing hot work. Also, no smoking, drinking or eating in the exclusion zone is allowed.

PROJECT: Old Roosevelt Field Site

TESTING PERFORMED:		
PROBLEM/DELAYS/CORRECTIVE ACTION TO BE TAKEN:		
GREEN REMEDIATION PRACTICES IMPLEMENTED AND QUANTITIES TRACKED:		
COMMUNICATION WITH CONTRACTOR STAFF:		
COMMISSION WITH CONTRACTOR CITAL T.		
MEETING:		
MEETING:		
ADDITIONAL ACTIVITIES AND REMARKS:		
By: Frank Robinson		
Title: Project Geologist		

ATTACHMENT 2 FIELD LOGBOOK NOTES



RALEPA

Mobilization

0600- F. Robinson on ink by # 400 light Rain (8° heavy rain just parted 0635- Thomas Mallow and Ali Rahman ((On) on site 0700- Mr. John Delurd Port-a-John 0780 Adler detury Frac tak put in temp treatment area (new extraction wells) 0945 - Gencing Contract on site 1000. Onlers on sit: United 1130. Ist roll off on site, by extraction well location 1150. Mod space deliving site trake Joe Gagnon-helper Brad Barnes - Lelper Botch Hitzelberger 1230. Dalles building de con pad by staying location 1400- Finished retty of traile 1504. Leave He site 1515. At Houdberry pulary up ograpmit 1600. Lew of Woodbury 5/3/10

5/3/10

Jak M

5/4/10

ORF

OGST. E. Robinson on site 65° Mostly Cloudy, Windo Calm 0700- Dallers on-site: Botch Ktelburger Brad Barner and Joe Gagnon 07-40- Fencing Contract - Westernel - Mantinel - Mantinel on site to install staging area tencing Uni-Tech Egupant Failing 1500 Dall Rig Tender Truk Support Truck Deare SIDE Backhove 0745. Collected both Litamets! MiniRae 3000 PiD and U Rae multimet both calchated OK-SER calabration log to details 0810 - Uni Tech decoming equipmet and nig 0830 Unity locator on site Roch Gaymon Utility Survey 0 845. Marky cut Min-1 closer by #400 0931- 2nd Roll of delimed to staging orea Kneehold Cartye he 1005. Area and Mw-oi closer cleared

Moving to extraction well area

1030- Hos targile saluty needing of drillers

TB01 RA/EPA 1050- Justine carry pipe being debured.

ORF

Storing pipe at temporary treatment facity location 1110 - Extraction well locations clevel 时代 1120- At Mw 2 cluster: whity dearly 1/30- Drill Ry mound into tenced in area 1215- National Kence finded Lencing around staging area was nothing screening (motion) around extraction well location. 7235- Jackhannen aphilt while the Lest boning (TS.01) is to be installed (EW-1D ocation) 1315 At MW-2 cluster: looking hand Macis Left movok, right one had be moved 6 towns Mays de to electrical lings 1355 - Dully (atch) hit a car is the pulsy lot white moving the trails though 2 perked Cars. Butch are driving alled the police. Gilled Ali and informal him about the vitreto. 1415 Thomas Maller Called back will e-mil one the incident report

ORF RAIEIA T8-01 5/4/10 ORF RALEPA TB-01 Dingane of Acidet 6635- F. Blinon on site Clear 57° winds Colm hit left fruit Linder 0700-UniToch onsit Butch Hitzelbergar, Brad Barnes, Joe Gagna opened hydrant to the oct of the studing area of fish it as requested by the Gerden Coty Harpstead Water Atlanty 0705- Calibrated Mini Rue 3000 & Vikae successfully. See calibration by for details. 1435 Nassan County Palice on Screen 0715- Hydrant flund, filling tender where otro. Tailgate HIS meeting of Uni-Tuch 1440. Informed this in Garden City P.D. Jonoportia, warting for them to arrive. 10731- At Extration well (fest born) locate 1450-Garden Coty PD on File drille mony equipment around. color Collector 40:42' Split Spoon 1500- MW-3 Clust cleared. We thinks nearby 1525- Moving tender close to rig by Tool (E4.10 0925- Uniller (Bitch) went to Gorden Crij 1555- Mixing mud in mid the (fine Gold Gel) Water Attenty to shout water use permit 1600. Stumy to drill on TB-01 1031 Dalle back from water authority 1618 - Collection Let split span 10-12 but the permit - that rate 1635 - Kain Shower 1100-10-01 80-82' split upon collected 1647- Harry Thurder - Shotting down I alled to 35' pulls not to energe burelole to install 16 Steel surfue casing 1705 lean the site Frh h. 5/4/10 115- Attached 20" drill bit to clean at boreble to notell 16" caving

ORF RALEPA

TB-01

C635- F. Robinson on site Mostly Cloudy 58° winds Calm 0.50 - Calibrated Mini Rae 30th and URac Successfully - See Callbration should for details 5700-Unitech onsta Butch Atzelburger, brad Romes, Jax Gyan 0705-11+5 toolgale menty: proper PTE witch at the traffic, show trips offells. 0410 - Clany out med pit €834- Bulk lown to 64', clem, at border. 0440 wilding lifting tabs on 16" niver pipe 0911 Still cleans out borelob, and of by process of grand POYTO Mull vary thick, still clang out borelole 1115 - Had to bong bit up to the su-face was clossed 1135 Rain Shower 1220- Don to 280', will a wordall to 82 before setting carn 1355- Minmy Ist Jeth of 16" niver pipe to sinchole 1310-1410- Isi 20' section at pipe in barehole 1415 - and Pipe read to be welded 1945. Widdey 2nd & 3rd Rpc 1455 3rd section loved into beachole

5/4/0

RAJETA

1455- NOTE: OTLE drill mg and allegart I impacted before work on Traveley and all appeared to be in good worky order @ All matrix used by Uni-Tech to date

was inspected and meets the siburdely approved by CPM. The includes He driller addrive. great and coment.

1500 Welding 3rd +4th Section of pipe. 1517- Bother of 16" (any 11 at 80"

1550. Setting up to trave growt any into place with a count/bentite growt

1615- MINIS Zit the of Commit bushing great truise pyre 80' down at Sitten it carry 17 4 - Knilled truck graphy - Used 53 545

ch Cement + 4 bays of benbrite (& tubs) grated to grade, will top off tomorn after

it settles out overnight.

1750 - Kemain rest of transe pipe and Cleaning up. 1820- Leavey the site

0635- F. KSinum on site

Clear 550 winds light for the wort 0647 - Calibrated Minikue 3000 & URace successfully. See Calbrati shouts for details 0705- Uni-Tech onsite Bold Ktal bager Brad Barnes Joe Gagon. 0710. Tailgate HOS meeting

- Min is to Cut surface carry down, Clem out mud tob and bring in small

mud tob.

0800 - Cuting so the case down 4902- Finishy demy out by and pit

0905-6 sut only settled ~1.5' ouright in 15-01

Sar Setting of Small mud like CTb-01

1000-Lours 86 of drill rod down the

bonehole

1100 146 Extraction well location second I he westernd

1/20- Stagly area secured for the weekend Leaving for Hedry 5/7/10

RALEPA

TB-01

0635- K. BS. was on sit Cley 450 winds light a variable Olyc Due to high wand, the finds of the temp water troubent area and the Retraction well areis were known our (the fence on the rondway) bout our and broke the orange bother fence below, It's the Stagus area gate force was bent our conit open gook 0700 - Spiles to Clas @ Water Frame about sence felly aux 0700 Un. Tous on stratch & Sue Brad 0731 - Todd Daniel + Keith Fitzgordd Intex Environmental Goup. Moby the treduct trailer 0740 Intex trained trails on sit also the 2nd bett Frac tank (Adle) 0750. Togethout trail in pine want to It for tenk 0810- 2nd Frank in Staying area 0817-Talgate Ht & meeting 0821. Unknow yelledy syptes at styly are 0905-Spoke to Hot Source Without fence They will were to report ferce souther

RAIEPA

TB-01

Osot (onit) this morning 0.945-Uni-Toch starty to the fence by dall rig. National fence or site to ropair tences; starts at staging one gate, dalls got all of the time up by extracta area 1210 - Nation at extractin well over repairing time here 12it - Regard mud for not off to holding tank to re-use much 1230. Villey don to 86' 1235 Calbrated Minikae 3001 + Rue Successfilly See calibate short for details 1310- Still much grand at bother of borehole Switchy to "Junk basket" to commone 13.1- Gene Streiter (Sea Coast End.) 1330. bene & lew the site going to staying area to look at tent + roll-off 1335- Petty inds to in Iall water booket to remove grant 13 50. Work in from mentions are force

10-9C

ar down and coller/graff up they

to remove grand/celle for better st

to the mud ost. This will make it early 0800 - Citchery mad and do sender mud

Litely Hitzelbury, Wild burner, we burgen

Star - Uni-Tach as site. wont & pull

ITTHE WAIT OF THE METO

weersufily has calbute that I dotal

other 2 + H supported

Bushele way the 4"pipe to what copiesed

ObyT- Cilbrated MiniRe 3000 + VRCce 0637- F. R. Bin W. C. L.

1710. Lew my 12 5171. A sicher Casing the piet to bring the saul up the 1650- Will be getty Y" pipe + pup ai don The good is tour Dally the 20" berelole \$ 001-58 Der & Love & 1000 g 1610 - Dally Jun = 100 to the west spet 15 41. July bullet up again. 1515 Sends Jak buled dun eigen by pieces of grand in it. remark that I have the 1450- Costance have in the Junk borbed to

to abien of much sout play ! Edleden . 2501 gravel in 16 casing almost 20, 400 - Scite 10 temb and the collegand yegge 4 p.00 have duny to middle of the 4" pige es a vertre sudos e copusida es e pdy say " p sy piece set line statute for - 7260

The 4" P. get 5/1.112

wond batagras ad line (41) for use is presented with construction thereby then server seem and not repose thoughto busin hot in 100 1 hest one of the day 1648 - Celler B 345. 3491 1540 Collects 53 310-312'
1540 Collects 53 335-337' 1305- Collecting St 285.287 1335-6laty 51 280-282' 1042. Clets of on 220 225 223-525 0802- Cellens spill gan 220-222 0815- Collecting 502 speed 210-212" ter-soe most tos byton 3.550 Super 3, the 305 & 415 20092 + 402 + 142 - 214 0 OFIC The Jost Host mark Bich H Buel & and See 6 2656- Unitach cos30 Decent 47° was lift he The about 4375 / 186m- DAGE 10-81 13/63 9/12/15 DRF

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#10

1725- Romania from the bonde 100

of drill rods. 1740. Leny Heath

NOTE: Collected the motions before

Start of work today. See Callate

Sheets for detals

ORF RALEPA

TB-01

0635- 1. Reson consiste also

Uni-Tech : Butch H. Brad & and Soe G.

5/13/10

OGYT- Calibrated Mini Re 3000 + VRee successfully for called that her

details.

0650-Tailgale H+S meeting Clew 48° which light for the law w

075. Lowing rods dum hole to

get dun to 350' f 1st split spour

will be supply evry 5 to the bithan @ 415'

10735- Own to 350', hole stayed open overy by

OTHE howers must to grouse should

0805- Collectes Ist split spoon (ss) of the dig 350-3527

1830. Intex Toll David on-sit

to accept deling it 20' stage cotagier.

1150- Dan O'Rondea Sand to add Sungles for: 50, 130-150'

also s-d Clay layer 223.233'

1220 - Collecting last TB-01 Split spon at 415-477

1330 Intex 20 contino on site

1345- Starty to till the TB-01 borble

RAJEPA 18-01/ Decon

1345 (cont) with #1 God pack

Ew-old I EW-010 will be installed at this locate. Will be fill,

it in to the buttom of the

80' sortine caring

1500 - Finished grain puckey to bottom of

Sisteries Casing 1525- Clamy of potable mydpit

1535-Mining is cut of Forced in core 1540 - Moving mig and tender to strong once

1600-Starting to steam clean doll rig.

1220. Todd (Intex) Leaving

1700 - Knild decoming engines und

C TBOI

1540 - learn the site

RALEPA MW-035

ORF

0600. At Woodbry office copying completed bone bys (TB-01) and scanned is my compile

0650- At Staging Area Overcast 58°

OGTS-Uni-Tech on sofe

Butch H., Brad B., Joe G. 0700- Talgate Has meety

0720- Stem clay mud tot 0755. Un: Tech open the MW cartak

matrial and it what was submitted to CDA

and approved 4" 10 slot SS screen and 55 4" casing.

0850- Jackhanny MW-35 to set

0910- Mast up un ny on MW-35

0915 - Went sur bore Toy and split spoon suppose with the driller (Butch) and

Selected sugder to be superitted for grain Site analysis. Split the sayles

agually in case something happen to The samples en route to the Las

Johnson Screen (He Las) said they need ~ 100 grav of super

114/10

AMERICALISM RATEPA

MW-635

1000- Split the samples and completed Charm of Quetody Con. The sapto that are going to the Isl ere: 290-292 360-362 218-217 225-227 295-297 370-372 230-232 310-312 380-382 235 237 315- 317 390- 392 325- 327 245- 242 400-402 405-407 260-262 336-332 270-272 410-412 340-342 350-352 280-282 60-62 285-287 355-357 240-1421 a total of 35 septes 1030 - Setting up portale mud pit on MW-35 1045 - Starting to rain 1117. UniTech have the site 1145- Leny the site

1/4/18

LAIEPA

MW-035

ORF

0635- E. Clive on sit Party Cloudy 57° winds Calm 0705- Uni-Tach on site Botch H + Brad B. 0715. Talcate H&S meety 0725 - Calibrated both Minikue 3000 + VRae successfully See California Slant for details 0730- Mixing up dally mid at MW-035 0740- Study & drill 8" plot hale to 80" the 12" borelole to set 8" surfue con 0750 - Have to reboild the drill rigs mud purp, was going the product last week and have the part of rebuild it with them 0915-LI Analytic Laboratory on site (Char Ortin) to drop off bother for TOC analysis 0950- Gilled up bottles in Samples game lot as gran size except for 60-62 and 140-142, No sample left for ylose 2 introd. So collected 80-82 and 150-152 1005. LI Ambored learn the sit with the samples. FR 5/17/10

ATTACHMENT 3 BOREHOLE LOG



environmental engineers, scientists, planners & management consultants

BORING NUMBER: TB-01

Page 1 of <u>/</u>0

Project Old Roosevelt Field L	ocation Garden City, NY Job. No	
Date Drilled 5/4/10-5/13/10	Drilling Co. Uni-Tech	
Total Depth 4/15'	Method Used Mud Rotary	
Inspector Frank Robinson Organic	Vapor Instruments Used MiniRae 3000	Water Table Depth ~ 40'

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
/o -		5-16 25-32	10-12	24/9	Ø	Reddish-brown fine to medium sand 1146 gravel, Some fines	SP	
١٥ -		7-21 43-50	20-22	24/4	Ø	same as above	SP	
30 -		7-7 9-13	3•-32	24 / Ø	Ø	No Recovery	1111111	·
\ <u>\</u>		5-7 33-41	40-42	24/10	Ø	Brown fine to medium sand much gravel	60	
0		8-17 22-29	50-52	24/8	Ø	Same as above	60	
0		/6-29 25-26	60-62	24 / 7	Ø	Grange-brown fine sand some fines	. سی ا	
1								

Page 2 of /0

CDM

environmental engineers, scientists, planners & management consultants

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap, (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
=								
•	******						1	
, a						Grange- brown fine sand	- 60	
70 <u> </u>		22-27	70-72	24/	Ø	fine sand much gravel		·
. 1.		34-36		/ 8	,		7	
80_						orange-brown fine sand	_ Sw	•
		26-26	80-82	24	Ø		1	
-		32-45		1.15		Onlled down to 100'	_	
90 _						too much gravell to		-
			90-92	ay/ø		collect split spoon sample]	·
						addich brown to		·
/00 —			4. 4.2			reddish-brown to yellowish-brown fine sand w/ fires	-Jrw	
1		7-17	100-102	24/16	Ø	fine sand wil times	1	
-					À	Blackish- grey		
//0-		22-19	110-112	ay /		Sandy Silt	JSM	
1		47-53		/19	Ø			
1							1	
/20 <u> </u>		17-19	120-122	ay/		Same as above	Sm	
3	ı	23-27		/14	Ø		-	
1								
180 —		7-7	130-132	ay/	Ø	tan	-5W	
		13-15		/3	Ø	fine fand No fines		
						•		·.



environmental engineers, scientists, planners & management consultants

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap, (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
esi esi esi						orange-black		
40_		9 - 11 15 - 33	140-	24/8	Ø	orange-black will black mottling Fine Sand No fines	sω	
S»—		27-31	150 - 182	24/	Ø	tan Fine sand No Ana	SW	
0		37-42	/60-	24/		Orange-brown with black fine banding on bottom 6"	SW	·
70		7-7 5-5	170.	24/	Ø	Fine Sand Brown to black bottom 3" Fine Sand 1.ttle fires	Sw	
60		7-7	180-	24/	8	Brown fine sand 1146 fines	SW	
90-		6-13	190-	24/10	Ø	Greyish-black Silty-clay non-plastic (ends at 1931)	CL	
.00		21-23	202	24/5	Ø	Greenish-Brown - Fine Sand	- - - - - - -	
-		01-13		-		little fines		٠,

environmental engineers, scientists, planners & management consultants

Depth (feet)	Samp.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
		105.		The Address				
						·		·
						tan The Sand -	- Sw	
₹05 <u>—</u> :		40-49 55-52	205- 207	24/9	ø	The Sand -		·
			Annual Assessment of the Control of					
<i>\10</i> —		33-15 5-5	210-	и/		NO RECOVERY -		
		3 " 3				tan w/ black mottling fine sand to	w	·
NS —		7-7	215.	24/15	Ø	tan five and wil fine.		·
		-				Accorda la contra		
?20 —		39-42	220· 222	24/6	Ø	Grange brown Fine sand -	- - - - -	SiH/Clay
		28-40			·	Dork Grey	Sm	223-233
25_		7-13	225- 227	24/	Ø	sandy-silt -		
		22-28		/15		Dark-grey silty-clay	Sm	
₹30 —		27-38	230-	24/	Ø	foreyish-white -		
		80/4"		/12		3" silty sand (grey) to	Sm	
35_		39-44	235-	24/	Ø	3" Grey fine sand to - 3" Grey silty sand to	- Sw	
e 		27-34	237	14	P	Black and grey bunded.	Sm	
<u></u>						Fine Sand	}	

Dago & of 10

CDM

environmental engineers, scientists, planners & management consultants

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
						top tan and black fire layers fine sand will fines to Bottom tan and orange	Sω	
240-		21-23	240- 242	24/13	Ø	layers fine sand -		
245		20-23 27-38	245- 247	24/	Ø	grey and red rust layers _ Sandy Silt	Sm	
2So—		19-21 27-39	250. 252	24/8	Ø	greenish-brown Fine to medium sand- little fines	50	
255—	ľ	a 2-29 50/5"	255- 257	21/7	Ø	same as above	SP	
\60 —		37- 48	260- 260-	24/7	Ø	greenish-brown fine sand some fine	SW	
ξ(ς S —] 	,	48-62	245- 267	24/6	Ø	Same as above	- Ju	
270—		52-60	270- 272	24/6	Ø	same as above		
		graducia de maiordo e de comunicaçõe de Europo de publicar				-	-	٠.

BORING NUMBER: 15-01 Page 6 of 10

environmental engineers, scientists, planners & management consultants

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
₹7-5-		44-52	₹ ₹₹-	24/		Greenish-grey with red rust interbedded layers Fine Sand	SM	
80_		49-61	277 280- 282	24/12	Ø	Charcoal grey Silt with fine layering	· · · · · · · · · · · · · · · · · · ·	
85—		37 50/6°	285- 287	24/3	Ø	Greenish-brown fine to medium sand-		
90 —		65 50 3*	290- 212	24 / 7	Ø	same as above	Sp	
9S —		51-55	295.	24/11	ø	Greenish-white Silty sand	Sm	
Soo —		63-77	302 300-	24/12	Ø	Greenish-brown Fine to medium send. Some mica	SP	
<i>&</i> -		53-5S	305- 307	24/ 5	0	Same as above	R	
]						,		

BORING NUMBER: 76-01

environmental engineers, scientists, planners & management consultants

Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap, (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
	/00/b"	316-	24	Ø.	Greenish white - fine sand No fines _	SW	
	65-70	315-	24/5	Ø	Same as above	ſω	
	31-45 50/4"	320- 322	24/ 9	Ø	Greenish-brown Fine to medium scud - some fines	SP	
	49-71	325. 324	24/7	Ø	Same a above -	SP	
	44-56	384 ·	24/8	Ø	same as above	100	
	44-66	335- 337	4/7	Ø	Fine Sand Some finges	- - - - - - - - - - - - - - - - - - -	
	21-15	346- 342	24/8	Ø	Fine sand to blackish- orange Fine sand	- - - - - - - - - - - - - - - - - - -	•
	No.	100/6" 100/6" 31-45 80/4" 49-71 44-56 21-15	100/6" 3/6-312 31-45 325-322 49-71 325-322 49-56 335-332 44-66 335-332	100/6" 310- 24 6 65-70 315- 24 5 31-45 320- 24 7 50/4" 322 9 49-71 325- 24 7 49-56 330- 24 8 44-66 335- 24 8	No. per o 1bs. Interval Recov. (PPM) /oo/6" 310- 24 6 65-70 315- 24 5 31-45 320- 24 9 49-71 325- 24 7 49-56 335- 24 8 44-66 335- 24 8 21-15 346- 342- 24 8	100. per 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100. 101 105. Interval Recov. (PPH) Greenish white Fine sand No fines Sw 65-70 315- 24 Same as above 50 31-47 320- 24 50 50/4" 322 9 Same as above 50 49-21 327- 24 7 Same as above 50 49-21 327- 24 7 Same as above 50 49-31 327- 24 8 Same as above 50 49-31 327- 24 8 Same as above 50 49-30 337- 27 8 Same as above 50 50 49-66 335- 27 8 Same as above 50 50 50 50 50 50 50 50 50 5

Page <u>8</u> of <u>10</u>

environmental engineers, scientists, planners & management consultants

Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap, (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
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	75	360.	24/	Ø		1	
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	32-27	365-	4/	Ø		'	
		30+	/11				
						Trus	Ì
	49-72	326-	24/	Ø			
		372	/10	<i>y</i> Ø			
					Greensh-White to	1	
	21-10	375-	24/	, OS	orange at bollon -	Sw	1
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						7	
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Page 9 of /

CDM

environmental engineers, scientists, planners & management consultants

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap, (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
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		and the same of th	an a managan an a			tan and greenish-brum layers (2"each)		
85		33-37	392.	24	<i>N</i>	bottom orange and red thun bandiy 1/2" each Fine Sand	SM	
=		41-49	31.5	/.14	Ø			
e						Greenish-white	SW	·
90 -		18-20	39r 38r	24/7	Ø	fine sand		·
· -		21-22				Greenish-brown		·
95-		17-17	315	24 /		2 1" orange rust layers	- - - -	
]		21-25	383	/11	Ø	fine rand		
						Greenish-brown	w	
% →		17-20	400-	24/6	Ø	Fine sand		
1		23-23		/ 0		Greenish-brown		
/os_ <u>_</u>		80	405-	24		The to medown -	92	
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BORING NUMBER: 75-01 Page /0 of /0

environmental engineers, scientists, planners & management consultants

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
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ATTACHMENT 4 CHAIN-OF-CUSTODY FORM



CUM

Name (for report and invoice)

Company

Address

City

Phone

TB-01

TB-01

TB-01

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T6-01 7601

T6-62

TA-01

TSOI



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Fax

60-62

215 217

230- 232

235-237

2 60- 261

777 New Durham Road Edison, New Jersey 08817

Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST THE LEADER IN ENVIRONMENTAL TESTING Samplers Name (Printed) Site/Project, Identification Old Recsouph Field State (Location of site): NJ: Other: Regulatory Program: ANALYSIS REQUESTED (ENTER "X: BELOW TO INDICATE REQUEST) LAB USE ONLY Analysis Turnaround Time Standard Project No: State Rush Chrages Authorized For: 5,78 2 Week Job No: 1 Week Other No. of. V Sample Sample Identification Date Cont. Numbers Time Matrix 5/5/10 Suil 5/11/10 Sil 5/12/10 X 225-227 242-347 270-272 X. 280-282 Preservation Used: 1 = ICE, 2 = HCI, 3 = H₂SO₄, 4 = HNO₃, 5 = NaOH Soil: Water:

Special Instructions			*	Water Metals Filtered (Yes/No)?
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Relinquished by	Company	Date / Time	Received by	Company
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Relinquished by	Company	Date / Time	Received by	Company
3)		11	3)	
Relinquished by	Company	Date / Time	Received by	Company
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).



777 New Durham Road Edison, New Jersey 08817 Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

THE LEADER IN ENVIRONMENTAL	resting													Page of	
Name (for report and invoice)	Samplers Name (Printed)						Site/Project Identification Old Resource + Field								
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									atory P	Other.					
Address	Analysis Turnaround Time ANALYSIS REC					IS REQU			LAB USE ONLY						
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777 New Durham Road Edison, New Jersey 08817

Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

THE LEADER IN ENVIRONMENTAL TEST	ING	AIIV OI					0.0									Page <u>≤</u> of <u>⊰</u>	
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Address City State			Analysis Turnaround Time				ANALYSIS REQUESTED (ENTER "X: BELOW TO INDICATE REQUEST						7)			LAB USE ONLY	
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Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

110 Colin Drive • Holbrook, New York 11741 • Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS	CONTACT:	SAMPLER (SIGNATUR	1	TIME	SAMPLE(S) SEALED					
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$\mathcal{A}_{i} = \{ (i,j) \mid i \in \mathcal{A}_{i} \mid i \in \mathcal{A}_{i} \mid i \in \mathcal{A}_{i} \} $	FAX:	SAMPLER NAME (PRI	NT) DATE	TIME	CORRECT CONTAINER(S)	ID # (FOR LAB USE ONLY)				
<u> </u>	FAX:		75 + - 1		YES / NO	(FOR LAB USE UNLY)				
PROJECT LOCATION:		SA	MPLES RECEIVED AT		<u> </u>	1//////////////////////////////////////				
TERMS & CONDITIONS: Accounts are payable in full charges of 1.5% per month. Tendering of samples to buyer/sampler to LIAL's Standard terms	l within thirty days, outstanding balance LIAL for analytical testing constitutes a	es accrue service agreement by	°C	14/ 24/						
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"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

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TERMS & CONDITIONS: Accounts are payable in charges of 1.5% per month. Tendering of samples buyer/sampler to LIAL's Standard terms	full within thirty days, outstanding balance to LIAL for analytical testing constitutes a		T WANT		
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ATTACHMENT 5 PHOTO LOG



PHOTOS 05-04-10



P1010001.jpg Extraction well locations prior to drilling



<u>P1010002.jpg</u> Site sign installed on staging area fence



P1010003.jpg Damage to car caused by driller

PHOTOS 05-05-10



<u>P1010001.jpg</u>.....8f]``]b['UnH6!\$%fHYgh6cf]b['%:'UnYl hfUWijcb'k Y```cWUijcb



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PHOTOS 05-06-10



P1010001.jpgHYa dcfUfmilfYUra YbhignghYa "cWUrjcb'k]h 'cbY': fUWhUb_



 $\underline{\textbf{P1010002.jpg}}.....\textbf{GHU[]b['UfYU'ZYbWY'UbX'k]bX'gWfYYb'Wca d'YhY'm']bgHU'YX}$



<u>P1010003.jpg</u>.....@ck Yf]b['ZjfghgYWjcb'cZ%' ']bW 'WUg]b['d]dY']b'H6!\$%



 $\underline{P1010004.jpg}^{.....} \text{K YX]b[`\& gYW}] \text{cbg'cZ\%'']bW `WUg]b[`d]dY']b'H6 !\$\%$

PHOTOS 05-07-10



P1010001.jpgGa U``a i X'd]hgYhi d'cb'H6!\$%

PHOTOS 05-10-10



<u>P1010002.jpg</u>.....91 lfUWjcb'k Y``UrYUZYbWYXUa U[YX'Vmil\ Y\][\ 'k]bXg'cj Yf'l\ Y'k YY_YbX

 $\underline{P1010001.jpg}.....GHU[\]b[\ `UfYU'[\ UHY'XUa\ U[\ YX'Vmil\ Y'\][\ \ `k\]bXg`cj\ Yf'l\ Y'k\ YY_YbX$





 $\underline{P1010003.jpg}^{.....} HYa \ dcf U f milf Y U fa \ Ybhi U f Y U Z Y b W Y X U a \ U [YX V mil Y Y] [\ \ k] b X g `c j Y f `l h Y `k Y Y _ Y b X Y Y _ Y b X Y Y _ Y b X Y Y _ Y b X Y Y B Y B$



P1010004.jpg ······>i b_'VUg_Yhii gYX'UnH6!\$%hc'fYa cj Y'[fUj Y

PHOTOS 05-11-10



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P1010002.jpg **** FYa cj]b['[fUj Y`Zica 'H6 !\$%i g]b['U'j Ybhi fY'U]f``]ZignghYa



<u>P1010003.jpg</u>.....; fUj Y`fYa cj YX'Złca 'H6!\$%VcfY\ c`Y

PHOTOS 05-13-10



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P1010003.jpg **** = bh/1 ** 24YhighcfU[Y'WcblU]bYf]b h/a dcfUfmk Uh/f IfYUra Ybh'UfYU



P1010004.jpg:]``]b['H6!\$%VcfY\ c`Y`k]h ` %[fUj Y`



 $\underline{P1010005.jpg}.....8\,YWcbtLla\,\,]bUt]b[\,\,'th\,\,Y'Xf]^{``tf}][\,\,']b'th\,\,Y'gtU[\,\,]b[\,\,'UtYU$

PHOTOS 05-14-10



P1010001.jpgA K !' G cWU1cb VYZcfY Xf] b[



P1010002.jpg '''''(']bWt 'ghU]b`Ygg'ghYY`f]gYf'd]dY'Zcf'AK 'Wcbglfi Wf]cb

$\underline{P1010004.jpg}^{.....8f]``f][\ gYhi\ d'cb'AK\,!'\ G']b'gHJ[\]b[\ 'UfYU$



